

RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US03/38855

Input Set : N:\FANTU\0338855.txt

Output Set: N:\CRF4\12292003\PU38855.raw

3 <110> APPLICANT: diaDexus, Inc.
 4 Macina, Roberto
 5 Turner, Leah
 6 Sun, Yongming
 7 Liu, Shu-Hui
 8 Chen, Huei-Mei
 10 <120> TITLE OF INVENTION: Compositions, Splice Variants and Methods Relat:
 Ovarian Specific
 11 Genes and Proteins
 13 <130> FILE REFERENCE: DEX-0455
 C--> 15 <140> CURRENT APPLICATION NUMBER: PCT/US03/38855
 C--> 15 <141> CURRENT FILING DATE: 2003-12-08
 15 <150> PRIOR APPLICATION NUMBER: US 60/431,321
 16 <151> PRIOR FILING DATE: 2002-12-06
 18 <150> PRIOR APPLICATION NUMBER: US 60/431,301
 19 <151> PRIOR FILING DATE: 2002-12-06
 21 <150> PRIOR APPLICATION NUMBER: US 60/484,584
 22 <151> PRIOR FILING DATE: 2003-06-30
 24 <150> PRIOR APPLICATION NUMBER: US 60/518,607
 25 <151> PRIOR FILING DATE: 2003-11-07
 27 <160> NUMBER OF SEQ ID NOS: 340
 29 <170> SOFTWARE: PatentIn version 3.1
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 4798
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Homo sapien
 36 <400> SEQUENCE: 1
 37 ggsasgwggc caagggcatct gccactgctg ctgactgcca ctaccagccg gagccagggc 60
 39 ctggctcgaga caactatattt tgaggtatct gaggctaccc cacagcactc tctggcattg 120
 41 gcaagactcg tggctgtgac ccatgggcct ctgaggaggc gttgtaagtc cgcccagctc 180
 43 cccacttgct gtgctctcac tcaatgcgaa gggaaccaag gtaccagggc caagtgggtc 240
 45 cagacatcca cacggattct gaaagggcag gtcaagcaga ctttgtccag ccatcagcca 300
 47 cggcctctcg acagcaccaa gatggaagtc aaaggtcagc tgatcagctc tcctaccttc 360
 49 aatgccccag ctgccctggt cggagaggct gccccccagg tgaagtcaga gcgtctgcgg 420
 51 gggctgcttg accggcagcg gacctgcag gaggccctga gcctgaaact tcaggagctc 480
 53 cgcaaatgtg gtctccagga ggcggagctg actggccagc tgccccctga gtgccacta 540
 55 gagcctggtg aacggcccca gttgggtccg cggcggcccc ccacagcccg cgcctaccct 600
 57 ccaccgcacc ccaaccaagc acaccactcc ttgtgccctg ctgaggagct ggctcttgag 660
 59 gccctggaac gcgaggtgtc agtgcaacag cagatcgcg cggccgccc cgcctggcc 720
 61 ttggcccctg atctgagcac cgagcagcgc cggcgccggc gccaggtcca ggcagatgca 780
 63 ctgaggaggc tgcattgagct agaggagcag ctgagggatg tccgggccc ccttggccctc 840
 65 ccagtgtctc cgctgcccc gccactgcca ctgtccacgg ggtcagtgat caccaccag 900
 67 ggagtctgcc tgggcatgcg tcttgtctcag ctgagccaag gtgagcatcc cctgggtgagg 960
 69 gtgggagagt ggacactggc aaatggacgt ggtagggctg ggatgggtga ctggccgggtg 1020

RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US03/38855

Input Set : N:\FANTU\0338855.txt

Output Set: N:\CRF4\12292003\PU38855.raw

71	aaaaccggga	ggtaggcaca	actcaagtgg	cccaaccctg	gagaagagtt	gcgacaaact	1080
73	ggcttaccgg	aaaggacaaa	ctgtggggga	ctgatgaata	tctgccagga	cagtcaggaa	1140
75	ccaaactggg	gtggtcttgg	gctctggtaa	aagcagattc	ttgggacagg	aacaggatga	1200
77	ggcggaaact	ggccagaagg	tggcccaagt	agaggtgccc	acccagtggg	gtaagggggc	1260
79	agcaccagg	cctgggagtg	agaggccac	ttctccccct	ctcacctgta	gaggacgtag	1320
81	ttctgcactc	agagagcagc	tccctctcag	agtctggggc	cagccatgac	aacggtgagg	1380
83	actcctatcc	cccaaaccctg	cccccgactc	ctacgtccct	ttagcccctc	ccctttattc	1440
85	atccgaccac	atcctgcatg	atcagcccat	cctttgatgc	ccagcccctc	ctgtgctgct	1500
87	tcagcttctc	cttagccatg	ctccatcttc	ctatgggtcc	cccatcttct	tagcctcacc	1560
89	ccaccccagc	cccacagccc	cagaacctac	ttgtcagcct	tagttcctcc	tcagcctgct	1620
91	taacctgtcc	cagcactttg	cccctcccca	tggccttgcc	cccagcctg	tcctgcccc	1680
93	tctgggcccc	cctcattgaa	ttctatccca	cttgcctctc	tccactcaga	ggagccccat	1740
95	ggctgcttct	ctctggccga	gcgcccctca	ccacccaagg	cttgggacca	gctgcgggca	1800
97	gtatctgggg	ggagccctga	gcggcggaac	ccatggaaac	cacctccatc	agatctttat	1860
99	ggggatctga	agagccggcg	gaactctgtg	gccagcccca	ccagccccac	acgctcgctg	1920
101	cccaggagtg	cctccagttt	tgagggggca	agtgtgcctg	ccaccctgt	cctcaccggg	1980
103	ggcgctggcc	cccagctctg	caaacctgaa	ggccttcatt	ctcgtcagtg	gtccggcagc	2040
105	caggactccc	agatgggctt	cccccgggcg	gacctgcct	ccgatcgcg	ctccctcttc	2100
107	gtagctcgca	cccgcgcgag	caacagttct	gaggccctgc	tgggtggaccg	ggcgcgtggg	2160
109	gggggagctg	gctccccgce	tgcccctctg	gtccctctg	cctctggccc	cccagtctgc	2220
111	aagagcagtg	aggtgctgta	tgagcgcccc	caaccaaccc	ctgccttctc	ctcccgca	2280
113	gcaggcccc	cagaccctcc	ccgggcgcgc	cggcctagct	cagctgcccc	tgccctccga	2340
115	ggtgcccc	ggtccacc	tgtgtgtgga	gaactcctct	tggactatc	cttggaccgg	2400
117	ggcctgcccc	cagtgggcgg	tggaaacaggc	tggggggagc	tgccgcctgc	agctagggtc	2460
119	ccaggacccc	tctcccgccg	ggatgggctc	ctcaaccatgc	tccccggccc	accactgtg	2520
121	tatgcagctg	acagcaacag	ccccctctc	cgcaccaagg	acccccacac	ccgtgccacc	2580
123	cgcactaagc	cctgtggcct	gccccagag	gctgccgaag	gccctgaggt	gcacccaaac	2640
125	cctctgctgt	ggatgcccc	acccaccctg	atccctcgg	ctggtgaacg	cagtggccac	2700
127	aagaacctgg	ctctggaggg	gctgcgggac	tggtagatcc	ggaactcggg	actggctgcg	2760
129	gggccccagc	gccggcctgt	gctcccttcc	gtggggccgc	cacaccaccc	cttccctccat	2820
131	gcccgtgct	atgaggtggg	ccaggcgctg	tacggggccc	ccagccaggc	gccactccca	2880
133	cactcgagga	gtttcacggc	gccccctgtc	cttggcaggt	atgggggggtg	cttttactga	2940
135	tgggtagggg	tctcgtaagg	cagatggcga	agatatccag	gccaggaggt	ggctagtcac	3000
137	gatagcta	gaattggacc	atgaggaaac	tagctgctgt	gatggcacag	ggtcactcta	3060
139	ctgcacatga	cctgcattag	tccatggggg	cctgggtggag	gggatcttgg	gcactggtag	3120
141	cagcaattct	ttatcaagtt	ataggctgaa	gatgagcctt	gaagccaggg	tgccgggagg	3180
143	aagggacatc	tcatgcccct	tgtgttttcc	ttcctttttt	ctccatgccc	cagagcctga	3240
145	aagtgtgtgc	ctgtgcctgc	ctccacctct	ttaaocagacc	tcttttccct	tctttttctg	3300
147	tgtcttgtct	gtcttttctt	cttcttctct	tccccgcctt	gtcctccgga	ttcctgttac	3360
149	cccttctaaa	gatactacgc	ggacttctct	tatcccccg	agctgagcgc	tcgtttaagt	3420
151	gacctgacgc	tagaggggga	gcagtcctcc	agttctgaca	cccagacccc	ggggacactg	3480
153	gtctgacccc	ttctgatatg	tcccttgttg	gcctgggcac	gattccaatc	tggggagcac	3540
155	acagctgacc	tcgctgggccc	ctggggtgtg	gttgctctca	gtcctgagca	gagtgcgcca	3600
157	acctaattct	ccaaggcccc	tggctccccg	taggcccagg	aaggtgtctg	acaccctgct	3660
159	tcttctctca	cactgtgctg	gggactgggg	gcctcagct	agcttaaaag	aggggggatg	3720
161	atgtcatggg	gaccccaagc	cccttccctc	atztatgttt	acagttgtga	cttaggtatt	3780
163	cactgtcttc	ctccaacact	aggcgtttta	caaaagggaa	actgtgatct	catctggttg	3840
165	ggttcattcc	tgttcccatg	cccaaccagg	ttccattcag	gaacccccctc	cataaaatgg	3900
167	accatatacg	gtctcagggc	catttagggc	agccaggaga	ctccggtgtg	aacagaaatc	3960

RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US03/38855

Input Set : N:\FANTU\0338855.txt

Output Set: N:\CRF4\12292003\PU38855.raw

```
169 cctgccacgc atcgccaggg cagttggggc agtgggctct ctgcccacac ttggaaggac 4020
171 tgcagtctgg gtgggatgcc tgaaagagcc caacccctc tgtgcccatt gcctctgccc 4080
173 tgaccacccc cagtcaggag gccccacagg aggggcaccc ggtagatgcc agtgaaatcc 4140
175 tcaggggagg tctgcctgaa agagcccaac cccctctgtg cccatggcct ctgccctgac 4200
177 cacccccagt caggaggccc cacaggaggg gcacccggtg gatgccagtg aaatcctcag 4260
179 gtgaggtctg cctacggggc acggggccact caccactcac accttccttg gctttccttc 4320
181 cacccttttt tttttctcga gacggagtct tgctctgtca ccaggctgga gtgcagcggc 4380
183 gcaatctcag ctactgcaa cctctgcctc ctgggttctc ctgacctacc ctcccagta 4440
185 gctgggatta caggcacacg ccaccatgcc cggctaattt ttgtattctt agtagagaca 4500
187 aggtttccac atattggcca ggctggtctt gaactcttga cctcgtgatc tgcccgcctt 4560
189 ggcctcccaa agtgctggga ttacagccgt gagccactgc acccagcccc aatccaccac 4620
191 tttttaagca aacccacaca agttgtgttt tctatgatac ctgtctgtga ttttcggagc 4680
193 tgggggttcc cctacccccct tttcctggcg ttaagctttt ctttttatac cagtggatct 4740
195 ggacccaaga cattaccac actggaaggg gatttgtata ataatgtgt aaactgaa 4798
198 <210> SEQ ID NO: 2
199 <211> LENGTH: 1494
200 <212> TYPE: DNA
201 <213> ORGANISM: Homo sapien
203 <400> SEQUENCE: 2
204 aggcgcagg gcccctctgt gcctgtcact ggcaataatc catgccacag aagactatct 60
206 gctttccctg ggcctagggt ttctgctgaa tttcagactg gcttcagtg aaatgacatt 120
208 gccttccact tcaaccctcg gtttgaagat ggagggtagc tgggtgtgaa cagcaggcag 180
210 aacggaagct gggggcccga ggagaggaag acacacatgc ctttccagaa ggggatgccc 240
212 tttagacctt gcttccctgg gcagagctca gatttcaagg tgatggtgaa cgggatcctc 300
214 ttctgtcagt acttccaccg cgtgcccttc caccgtgtgg acaccatctc cgtcaatggc 360
216 tctgtgcagc tgtcctacat cagcttccag cctcccggcg tgtggcctgc caaccggct 420
218 cccattacc agacagtcac ccacacagtg cagagcgccc ctggacagat gttctctact 480
220 cccgccatcc caccatgat gtacccccac cccgcctatc cgatgccttt catcaccacc 540
222 attctgggag ggctgtaccc atccaagtcc atcctcctgt caggcactgt cctgcccagt 600
224 gctcagaggt tccacatcaa cctgtgctct gggaaccaca tcgccttcca cctgaacccc 660
226 cgttttgatg agaatgctgt ggtccgcaac acccagatcg acaactcctg ggggtctgag 720
228 gagcgaagtc tgccccgaaa aatgcccttc gtccgtggcc agagcttctc agtgtggatc 780
230 ttgtgtgaag ctactgcct caaggtggcc gtggatggtc agcacctgtt tgaatactac 840
232 catgcctga ggaacctgcc caccatcaac agactggaag tggggggcga catccagctg 900
234 acccatgtgc agacataggc ggcttccctg ccctggggcc gggggctggg gtgtggggca 960
236 gtctgggtcc tctcatcatc cccacttccc aggccagcc tttccaaccc tgcctgggat 1020
238 ctgggcttta atgcagaggc catgtccttg tctggtcctg cttctggcta cagccaccct 1080
240 ggaacggaga aggcagctga cggggattgc cttcctcagc cgcagcagca cctggggctc 1140
242 cagctgctgg aatcctacca tcccaggagg caggcacagc caggagagg ggaggagtgg 1200
244 gcagtgaaga tgaagcccca tgctcagtc cctcccatcc cccacgcagc tccaccccag 1260
246 tcccaagcca ccagctgtct gctcctgggt ggaggtggcc tccctcagccc ctctctctg 1320
248 acctttaacc tcaactctcac cttgcaccgt gcaccaaccc ttcacccctc ctggaaagca 1380
250 ggctgatgg cttccactg gcctccacca cctgaccaga gtgttctctt caggagactg 1440
252 gctccttcc cagtgtcctt aaaataaaga aatgaaaatg cttgttggca catt 1494
255 <210> SEQ ID NO: 3
256 <211> LENGTH: 1691
257 <212> TYPE: DNA
258 <213> ORGANISM: Homo sapien
260 <400> SEQUENCE: 3
```

RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US03/38855

Input Set : N:\FANTU\0338855.txt

Output Set: N:\CRF4\12292003\PU38855.raw

261	cgggcgccca	gagggcaaat	gaggggcggc	ggggtggcgg	gtggggggga	gacgcggaat	60
263	ttcccagcgc	gggggctctg	gcttaccctg	caaccgggca	gtctctttct	gtttacggag	120
265	agaaagggga	aatggaaaag	tcggggaggc	ggtggctggc	gtccgctgcg	ccgcccctgg	180
267	gcaggctcag	acgccgtgag	tcaggggcag	agcagggcgg	tctgagcgtg	cgggcgacgc	240
269	gggtctcact	cgtccgctcc	gctctggact	gcgcgccacg	ctctggggtc	cggcgccttg	300
271	gttcctgctt	ctgccgtgc	cgccgccgga	tcccagtgcc	ccggcgtgct	cggtctccac	360
273	aggcctgcag	ccagcatcgc	accgaacctt	cgggggggcg	cggtctggagc	gctcgcccg	420
275	cgtgggagcg	ccaaggccgc	agatgcaatc	ttcttaccgc	gaagaagcca	ggggaatagg	480
277	tagccacatc	ttgtttgcag	ataagaaagg	aagctaacgc	agtatctgca	aagccaggag	540
279	tctgactcag	tacttttctc	actcatgcat	acaaagcagc	taaaaatgac	acagcttatt	600
281	taccatgccc	ctgacactgc	actgagcact	ttatgagctt	gaactctgtt	aatcctcacg	660
283	accacctcat	gagactctcc	agaaagagca	acagtaatgg	agtacatgag	cactggaagt	720
285	gacaataaag	aagagattga	tttattaatt	aaacatttaa	atgtgtctga	tghtaatagac	780
287	attatggaaa	atctttatgc	aagtgaagag	ccagcagttt	atgaaccag	tctaatgacc	840
289	atgtgtcaag	acagtaatca	aaacgatgag	cgttctaagt	ctctgctgct	tagtgcccaa	900
291	gaggtaccat	ggttgtcatc	agtcagatat	ggaactgtgg	aggatttgct	tgtttttgca	960
293	aaccatatat	ccaacactgc	aaagcatttt	tatggacaac	gaccacagga	atctggaatt	1020
295	ttattaaaca	tggtagcttt	ctttccgatc	agttgggtgc	tatgtgctca	gctttcctac	1080
297	tgcagcttca	tttaatgcag	agtgggtgtt	gaatttggtc	tagatgggct	ggcaggcatg	1140
299	attttaaaaa	atgtaatcat	cagtaagaag	tacttccatg	ttaaagatgc	aaaaaaaaaa	1200
301	gtcttcatta	aaatttctat	ttaaagattc	ttgatcatat	tttagtagta	tttctacaaa	1260
303	taggtaatta	agaagaatgt	atttgggccc	ggcgcagggg	ctcacgcctg	taatccgcgc	1320
305	acttgagag	gccgaggtgg	gtggatcact	tgaggtcagc	aattagagac	cagtctggcc	1380
307	aacatgggtga	aaccccgtct	ctactaaaaa	tacaaaatta	gcctggcatg	gtggcgggcg	1440
309	cctgtaattc	cagctacctg	ggaggctgag	gcacgagaat	cccttgaacc	tgggaggtgg	1500
311	aggttgat	gagccgagat	cacaccactg	cactccagcc	tgtgtgactg	agtgagactc	1560
313	tgtctcaaca	acaacaaaga	agaatgtatt	ttaatttaac	agttcactaa	aaagtttatt	1620
315	catcagttat	gcagaaaaga	aaggcttaat	gagactcctt	cgtctgagag	gggaataaac	1680
317	actttgtcac	t					1691
320	<210> SEQ ID NO: 4						
321	<211> LENGTH: 8772						
322	<212> TYPE: DNA						
323	<213> ORGANISM: Homo sapien						
325	<400> SEQUENCE: 4						
326	accaaactga	agtgtaaagg	taagacctct	cctgctgcta	gtactaggag	aggtcttatac	60
328	cttacacttc	agtttggtca	ccagattatg	taaggataag	acctctccta	gtactagcag	120
330	caggaaattgt	gtgttccagt	aagtggctct	ttgcacggca	cttttttggg	atcaaattgtt	180
332	aacgttactc	cccagactct	tcgggcaaaag	gaatggctag	attcagagta	agaacaaccc	240
334	tccctttttt	gtaagtcccc	gtgttttagca	gggagaagaa	attctctaac	atgggttttg	300
336	ttttgtgtgtg	ttcttcatgt	ggaaatgtcg	cttaacaaaa	tatccaggct	tttgtttacg	360
338	tggaaaaagc	atcccttgta	atgattgtct	atcatactta	aaaacctttt	tcaaaggatt	420
340	ttcatgttcc	cagctataag	gactatttcc	atgacatgtg	ttattggcag	aatgagtgtt	480
342	aaatatggag	catatagcat	ggggtgactt	tcattgtcct	aacctgagac	agttttcctt	540
344	attactctgt	attgatcctg	ctagtccaag	aatggacatg	aagtgaacct	atcgtggtga	600
346	ctgggatagg	aaggtgcttg	ctattttttgc	cagcacagca	tattagttcc	tttgagagccc	660
348	tccattgtct	gagtctgcag	tgatctgtag	gaaggcagct	ggtcaataat	catgtagtac	720
350	aatggcttgg	aattgtaacc	actatggtta	ttgattgtcc	tgtgtgtgtt	caggcatact	780
352	taggtatgtc	cctggggaaa	aagaaaacca	ttcagctgag	agttgctaac	catgttcttt	840
354	tggtagaaa	taatggttca	ttttttgccc	ctggttggaa	tagtctctaa	aaggctctgg	900

RAW SEQUENCE LISTING

PATENT APPLICATION: PCT/US03/38855

Input Set : N:\FANTU\0338855.txt

Output Set: N:\CRF4\12292003\PU38855.raw

356	tgactgaatt	gaacatgagt	ccgcatgctg	ttttctttca	aaaggtatca	aaacggaaaag	960
358	cctctctaag	gggaagacct	ttcaactcca	ttcagaagac	aacatttagt	aaggaggatg	1020
360	gcgagggtta	ctagtaatth	tcagatgtct	tgggcttttt	ctgccaaaca	aacccaaaat	1080
362	caaattagag	ttggtgaaag	ctttcttcag	tgtttttaga	agaggccatc	ttgaatctgt	1140
364	agaataccat	ttacacatca	acttcaccct	atgctcattt	cgtattttga	gcttaaatgg	1200
366	agtcctctga	agggggggta	gtcgtgattc	tggtggcaaa	actagaactt	ttaacttgta	1260
368	aaatgaaaaa	tattaaatgg	acctttttgt	cagttgagga	tttagattga	ttcttttatc	1320
370	tgaggagcgt	atgttcctca	gatgttgctg	agagaccttt	aggttttcat	ctactttaag	1380
372	attgctctct	tggcaattag	gggatttggt	aaaagaagaa	aaaaagatgc	catgtgttgc	1440
374	tagtacacag	ttataggata	tggtttctaa	tggttgaatt	ttgagggaact	ctccctaaag	1500
376	aatgagtttt	atatctcctc	aaggaaatca	tggaaaaatc	tgtttatctt	tcagtgaagc	1560
378	cttttgaatt	aatgttctta	aatttttttc	taagtctgtg	taagtgcctt	tgtataagta	1620
380	tataattgta	taaatattta	taaatatatt	tatatatta	cgttttcatt	tctaccttga	1680
382	gtcaaagttc	tgtctttaga	ttggtgactg	agtaataactt	acactttggt	gttttttctt	1740
384	aggttcttga	ggcttactta	actagcagct	ctgtatttat	tgagtgaag	atgggtttca	1800
386	tgtaattccc	tcagttgcat	ctctgaactt	ggataacata	cttgccgttt	gaaaaataga	1860
388	gctgtatact	gtcaaaggtg	cactggaggg	taaaacattt	gttggtagta	gacaagctca	1920
390	gaaatccaaa	aattcmggga	gggcacaggg	taagaagaga	ggtttgctca	gctttgtgct	1980
392	ctgatggcac	ccatctgtac	tcagcaaaag	tcatagctga	agcccaaata	gctcaaacgt	2040
394	gtgaagtcaa	tcatttttcc	tatagggtct	tgtttccttt	tctttacctt	ctagcttctc	2100
396	ttgataaaac	agttgggaga	actgccaaac	tgttcatcag	tgagagggtg	tggttctttc	2160
398	cgatatgttc	agcacgtgca	tattcattta	tgagaaacca	aagtaacttc	ttcaactcgg	2220
400	gttactgttg	gatgattaag	tagatataaa	gtgatttaaa	agacagcatg	gtactttcac	2280
402	tcagcttaac	atgcagctgg	gatgtctaca	atacaagatg	tggtgggttt	tattttatth	2340
404	tattttgagg	caggagtgtg	attatcttag	ggttgatata	aaggcccatg	ggaagagtta	2400
406	cggattgtac	atgggaagaa	tcataaagga	gtattgcctt	gctcaagaat	ttaatccgct	2460
408	gacagtatgc	ttcttccagt	ttgccttact	tcctctgcaa	gtttctttgc	tccttagggc	2520
410	agagggtttt	ttgaatagat	taaatgaggt	cagtaagatt	agttaaaaat	agtcattcct	2580
412	tgtgggtgtt	ggacacagct	tgaaaggagt	gtttaaaaaa	aaaaagctag	ggaggaaaag	2640
414	aacaagaaag	atagacttcg	agagtataaa	gagaaaaata	caggagagatg	gaatggaaac	2700
416	taccaggaag	gccgggcgcg	gtggctcatg	cctgtaatcc	caacactttg	ggaggcggag	2760
418	gtgggcagat	cacctaaggt	caggagatcg	agggcagcct	gagcaacatg	gtgaaacccc	2820
420	gtctctacta	aaaatacaaa	aattacctgg	gtgtgggtgg	gtgcacctgt	aatcccagct	2880
422	actcagaggc	tgaggcaggg	gaatggcttg	aacctgggag	gcagagggtg	cagtgaacca	2940
424	agatcgcacc	attacactcc	agcctgggct	acaaagcgac	actccatctc	aaatttaaaa	3000
426	aaaaaaaaaa	agaagaagaa	gaaaactagt	gggaaaaaag	tgagagggaat	acttttttga	3060
428	aattgggtatc	ggaagggaact	ggagaagaga	aaacaacagt	gccaaatgag	aaaagaacag	3120
430	gaaacttaat	actaattggc	atgcaccaga	tactttttgt	tacatttgcc	tcttcaatct	3180
432	cccgaagaat	cgtacaaaat	gtatactttc	ttcccatggt	aagaaaaacag	gtatagagaa	3240
434	cttattcagg	actcatagct	agtgaagtgc	aaatcagaat	tggaaatccag	agtccatgct	3300
436	gtggtctcct	tcagcaagag	aatcaagcta	cccagatgat	tctctttctca	ttgtttggct	3360
438	ttgtaaagtg	tcacttagtt	ttgttcccat	aaatatagag	gaagtagttg	ggttaaagtt	3420
440	gtgggatttg	cactatgcct	atacattttt	atttatgcca	ttattttgag	aggctgatta	3480
442	ttgctttttt	aaaatgatgc	actggtgaag	atgtgaaagt	aaaattgcca	cgtggcatta	3540
444	tttgccaaga	ataaatgaaa	agggtaaaaa	aacaattttt	tcttttttta	aacatttttc	3600
446	agaaaagata	caattacctt	ttttaatagg	tgagcgccac	cacgcccggc	taatttttgc	3660
448	attttttagta	gagacaggtt	ttcaccatgt	tggccaggat	ggtctcgatc	tcttgatctc	3720
450	gtgttccgcc	cacctcgcc	tcctaaagtg	ctgggattac	aggcatgagc	cactgcgcc	3780
452	gatctacaat	tctgttttct	gtgtcccatc	cataccagat	tattgaaccc	tctgtgtgta	3840

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: PCT/US03/38855

Input Set : N:\FANTU\0338855.txt
Output Set: N:\CRF4\12292003\PU38855.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:44; N Pos. 760,772,803
Seq#:81; N Pos. 6,66,96,100,118,120,180,191,205,206,211,212,330,844
Seq#:112; N Pos. 1528,1538,1545
Seq#:180; Xaa Pos. 45
Seq#:184; Xaa Pos. 207,211
Seq#:209; Xaa Pos. 11,12
Seq#:226; Xaa Pos. 206,210
Seq#:233; Xaa Pos. 3,4,10,11,31,34,39,41,44,57,59,60,65,66,69,71,75,76,80
Seq#:233; Xaa Pos. 81,83,97,115
Seq#:234; Xaa Pos. 9,10,16,17,37,40,45,47,87
Seq#:237; Xaa Pos. 70,84,92
Seq#:242; Xaa Pos. 3,4
Seq#:275; Xaa Pos. 243,245

VERIFICATION SUMMARY

PATENT APPLICATION: PCT/US03/38855

Input Set : N:\FANTU\0338855.txt

Output Set: N:\CRF4\12292003\PU38855.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:3362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:720
M:341 Repeated in SeqNo=44
L:6295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
M:341 Repeated in SeqNo=81
L:8370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:1500
L:13649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:32
L:13825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:192
M:341 Repeated in SeqNo=184
L:16138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0
L:17661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226 after pos.:192
M:341 Repeated in SeqNo=226
L:18004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:233 after pos.:0
M:341 Repeated in SeqNo=233
L:18085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234 after pos.:0
M:341 Repeated in SeqNo=234
L:18204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:237 after pos.:64
M:341 Repeated in SeqNo=237
L:18401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:242 after pos.:0
L:20984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:275 after pos.:240